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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/078,113

DATE: 04/23/2002
TIME: 11:00:42

Input Set : N:\Crf3\RULE60\10078113.raw
Output Set: N:\CRF3\04232002\J078113.raw

SEQUENCE LISTING

1 (1) GENERAL INFORMATION:

2 (i) APPLICANT: Abrams, Mark A.
3 Bauer, S. C.
4 Bradford-Goldberg, Sarah R.
5 Caparon, Maire H.
6 Easton, Alan M.
7 Klein, Barbara K.
8 McKearn, John P.
9 Olins, Peter O.
10 Paik, Kumnan
11 Thomas, John W.

ENTERED

12 (ii) TITLE OF INVENTION: Interleukin-3 (IL-3) Multiple Mutation
13 Polypeptides

14 (iii) NUMBER OF SEQUENCES: 415

15 (iv) CORRESPONDENCE ADDRESS:

16 (A) ADDRESSEE: Dennis A. Bennett, G.D. Searle & Co.,
17 Corporate Patent Dept.
18 (B) STREET: P. O. Box 5110
19 (C) CITY: Chicago
20 (D) STATE: Illinois
21 (E) COUNTRY: USA
22 (F) ZIP: 60680

23 (v) COMPUTER READABLE FORM:

24 (A) MEDIUM TYPE: Floppy disk
25 (B) COMPUTER: IBM PC compatible
26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

28 (vi) CURRENT APPLICATION DATA:

29 (A) APPLICATION NUMBER: US/10/078,113
30 (B) FILING DATE: 19-FEB-2002

32 (vii) PRIOR APPLICATION DATA:

33 (A) APPLICATION NUMBER: 08/469,419
34 (B) FILING DATE:
35 (A) APPLICATION NUMBER: 08/411,795
36 (B) FILING DATE:
37 (A) APPLICATION NUMBER: PCT/US93/11197
38 (B) FILING DATE: 22-NOV-1993

39 (viii) ATTORNEY/AGENT INFORMATION:

40 (A) NAME: Bennett, Dennis A.
41 (B) REGISTRATION NUMBER: 34,547
42 (C) REFERENCE/DOCKET NUMBER: C2713/2

43 (ix) TELECOMMUNICATION INFORMATION:

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Input Set : N:\Crf3\RULE60\10078113.raw
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44 (A) TELEPHONE: (708)470-6501
 45 (B) TELEFAX: (708)470-6881
 46 (2) INFORMATION FOR SEQ ID NO: 1:
 47 (i) SEQUENCE CHARACTERISTICS:
 48 (A) LENGTH: 23 base pairs
 49 (B) TYPE: nucleic acid
 50 (C) STRANDEDNESS: single
 51 (D) TOPOLOGY: linear
 W--> 52 (ii) MOLECULE TYPE: DNA (*synthetic*)
 53 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 54 CTAGCGATCT TTTAATAAGC TTG 23
 56 (2) INFORMATION FOR SEQ ID NO: 2:
 57 (i) SEQUENCE CHARACTERISTICS:
 58 (A) LENGTH: 23 base pairs
 59 (B) TYPE: nucleic acid
 60 (C) STRANDEDNESS: single
 61 (D) TOPOLOGY: linear
 W--> 62 (ii) MOLECULE TYPE: DNA (*synthetic*)
 63 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
 64 GATCCAAGCT TATTAAAAGA TCG 23
 66 (2) INFORMATION FOR SEQ ID NO: 3:
 67 (i) SEQUENCE CHARACTERISTICS:
 68 (A) LENGTH: 69 base pairs
 69 (B) TYPE: nucleic acid
 70 (C) STRANDEDNESS: single
 71 (D) TOPOLOGY: linear
 W--> 72 (ii) MOLECULE TYPE: DNA (*synthetic*)
 73 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
 74 GGCAACAATT TCTACAAAAC ACTTGATACT GTATGAGCAT ACAGTATAAT TGCTTCAACA 60
 75 GAACAGATC 69
 77 (2) INFORMATION FOR SEQ ID NO: 4:
 78 (i) SEQUENCE CHARACTERISTICS:
 79 (A) LENGTH: 67 base pairs
 80 (B) TYPE: nucleic acid
 81 (C) STRANDEDNESS: single
 82 (D) TOPOLOGY: linear
 W--> 83 (ii) MOLECULE TYPE: DNA (*synthetic*)
 84 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
 85 TGTTCTGTTG AAGCAATTAT ACTGTATGCT CATACTGAT CAAGTGTGTT GTAGAAATTG 60
 86 TTGCCGC 67
 88 (2) INFORMATION FOR SEQ ID NO: 5:
 89 (i) SEQUENCE CHARACTERISTICS:
 90 (A) LENGTH: 23 base pairs
 91 (B) TYPE: nucleic acid
 92 (C) STRANDEDNESS: single
 93 (D) TOPOLOGY: linear
 W--> 94 (ii) MOLECULE TYPE: DNA (*synthetic*)
 95 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
 96 CCATTGCTGC CGGCATCGTG GTC 23

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Input Set : N:\Crf3\RULE60\10078113.raw

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98 (2) INFORMATION FOR SEQ ID NO: 6:
 99 (i) SEQUENCE CHARACTERISTICS:
 100 (A) LENGTH: 46 base pairs
 101 (B) TYPE: nucleic acid
 102 (C) STRANDEDNESS: single
 103 (D) TOPOLOGY: linear
 W--> 104 (ii) MOLECULE TYPE: DNA (*synthetic*)
 105 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
 106 CATGGCTCCA ATGACTCAGA CTACTTCTCT TAAGACTTCT TGGGTT 46
 108 (2) INFORMATION FOR SEQ ID NO: 7:
 109 (i) SEQUENCE CHARACTERISTICS:
 110 (A) LENGTH: 42 base pairs
 111 (B) TYPE: nucleic acid
 112 (C) STRANDEDNESS: single
 113 (D) TOPOLOGY: linear
 W--> 114 (ii) MOLECULE TYPE: DNA (*synthetic*)
 115 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
 116 AACCCAAGAA GTCTTAAGAG AAGTAGTCTG AGTCATTGGA GC 42
 118 (2) INFORMATION FOR SEQ ID NO: 8:
 119 (i) SEQUENCE CHARACTERISTICS:
 120 (A) LENGTH: 64 base pairs
 121 (B) TYPE: nucleic acid
 122 (C) STRANDEDNESS: single
 123 (D) TOPOLOGY: linear
 W--> 124 (ii) MOLECULE TYPE: DNA (*synthetic*)
 125 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
 126 AATTCCGTCG TAAACTGACC TTCTATCTGA AAACCTTGGAA GAACGCGCAG GCTAACAGT 60
 127 AATA 64
 129 (2) INFORMATION FOR SEQ ID NO: 9:
 130 (i) SEQUENCE CHARACTERISTICS:
 131 (A) LENGTH: 64 base pairs
 132 (B) TYPE: nucleic acid
 133 (C) STRANDEDNESS: single
 134 (D) TOPOLOGY: linear
 W--> 135 (ii) MOLECULE TYPE: DNA (*synthetic*)
 136 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
 137 AGCTTATTAC TGTTGAGCCT GCGCGTTCTC CAAGGTTTC AGATAGAAGG TCAGTTACG 60
 138 ACGG 64
 140 (2) INFORMATION FOR SEQ ID NO: 10:
 141 (i) SEQUENCE CHARACTERISTICS:
 142 (A) LENGTH: 126 amino acids
 143 (B) TYPE: amino acid
 144 (D) TOPOLOGY: linear
 145 (ii) MOLECULE TYPE: peptide
 146 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
 147 Met Ala Pro Met Thr Gln Thr Thr Ser Leu Lys Thr Ser Trp Val Asn
 148 1 5 10 15
 149 Cys Ser Asn Met Ile Asp Glu Ile Ile Thr His Leu Lys Gln Pro Pro
 150 20 25 30

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Input Set : N:\Crf3\RULE60\10078113.raw

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151 Leu Pro Leu Leu Asp Phe Asn Asn Leu Asn Gly Glu Asp Gln Asp Ile
 152 35 40 45
 153 Leu Met Glu Asn Asn Leu Arg Arg Pro Asn Leu Glu Ala Phe Asn Arg
 154 50 55 60
 155 Ala Val Lys Ser Leu Gln Asn Ala Ser Ala Ile Glu Ser Ile Leu Lys
 156 65 70 75 80
 157 Asn Leu Leu Pro Cys Leu Pro Leu Ala Thr Ala Ala Pro Thr Arg His
 158 85 90 95
 159 Pro Ile His Ile Lys Asp Gly Asp Trp Asn Glu Phe Arg Arg Lys Leu
 160 100 105 110
 161 Thr Phe Tyr Leu Lys Thr Leu Glu Asn Ala Gln Ala Gln Gln
 162 115 120 125

164 (2) INFORMATION FOR SEQ ID NO: 11:

- 165 (i) SEQUENCE CHARACTERISTICS:
 - 166 (A) LENGTH: 24 base pairs
 - 167 (B) TYPE: nucleic acid
 - 168 (C) STRANDEDNESS: single
 - 169 (D) TOPOLOGY: linear

W--> 170 (ii) MOLECULE TYPE: DNA (synthetic)
 171 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

172 CATGGCTAAC TGCTCTAACAA TGAT

24

174 (2) INFORMATION FOR SEQ ID NO: 12:

- 175 (i) SEQUENCE CHARACTERISTICS:
 - 176 (A) LENGTH: 22 base pairs
 - 177 (B) TYPE: nucleic acid
 - 178 (C) STRANDEDNESS: single
 - 179 (D) TOPOLOGY: linear

W--> 180 (ii) MOLECULE TYPE: DNA (synthetic)
 181 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

182 CGATCATGTT AGAGCAGTTA GC

22

184 (2) INFORMATION FOR SEQ ID NO: 13:

- 185 (i) SEQUENCE CHARACTERISTICS:
 - 186 (A) LENGTH: 113 amino acids
 - 187 (B) TYPE: amino acid
 - 188 (D) TOPOLOGY: linear

189 (ii) MOLECULE TYPE: peptide

190 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

191 Met Ala Asn Cys Ser Asn Met Ile Asp Glu Ile Ile Thr His Leu Lys
 192 1 5 10 15
 193 Gln Pro Pro Leu Pro Leu Asp Phe Asn Asn Leu Asn Gly Glu Asp
 194 20 25 30
 195 Gln Asp Ile Leu Met Glu Asn Asn Leu Arg Arg Pro Asn Leu Glu Ala
 196 35 40 45
 197 Phe Asn Arg Ala Val Lys Ser Leu Gln Asn Ala Ser Ala Ile Glu Ser
 198 50 55 60
 199 Ile Leu Lys Asn Leu Leu Pro Cys Leu Pro Leu Ala Thr Ala Ala Pro
 200 65 70 75 80
 201 Thr Arg His Pro Ile His Ile Lys Asp Gly Asp Trp Asn Glu Phe Arg
 202 85 90 95

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203 Arg Lys Leu Thr Phe Tyr Leu Lys Thr Leu Glu Asn Ala Gln Ala Gln
204 100 105 110
205 Gln
207 (2) INFORMATION FOR SEQ ID NO: 14:
208 (i) SEQUENCE CHARACTERISTICS:
209 (A) LENGTH: 27 amino acids
210 (B) TYPE: amino acid
211 (D) TOPOLOGY: linear
212 (ii) MOLECULE TYPE: peptide
213 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
214 Met Met Ile Thr Leu Arg Lys Leu Pro Leu Ala Val Ala Val Ala Ala
215 1 5 10 15
216 Gly Val Met Ser Ala Gln Ala Met Ala Asn Cys
217 20 25
219 (2) INFORMATION FOR SEQ ID NO: 15:
220 (i) SEQUENCE CHARACTERISTICS:
221 (A) LENGTH: 133 amino acids
222 (B) TYPE: amino acid
223 (D) TOPOLOGY: linear
224 (ii) MOLECULE TYPE: peptide
225 (ix) FEATURE:
226 (A) NAME/KEY: Modified-site
227 (B) LOCATION: 1
228 (D) OTHER INFORMATION: /note= "Met- may or may not precede the
229 amino acid in position 1"
230 (ix) FEATURE:
231 (A) NAME/KEY: Modified-site
232 (B) LOCATION: 17
233 (D) OTHER INFORMATION: /note= "Xaa at position 17 is Ser,
234 Lys, Gly, Asp, Met, Gln, or Arg"
235 (ix) FEATURE:
236 (A) NAME/KEY: Modified-site
237 (B) LOCATION: 18
238 (D) OTHER INFORMATION: /note= "Xaa at position 18 is Asn,
239 His, Leu, Ile, Phe, Arg, or Gln"
240 (ix) FEATURE:
241 (A) NAME/KEY: Modified-site
242 (B) LOCATION: 19
243 (D) OTHER INFORMATION: /note= "Xaa at position 19 is Met,
244 Phe, Ile, Arg, Gly, Ala, or Cys"
245 (ix) FEATURE:
246 (A) NAME/KEY: Modified-site
247 (B) LOCATION: 20
248 (D) OTHER INFORMATION: /note= "Xaa at position 20 is Ile,
249 Cys, Gln, Glu, Arg, Pro, or Ala"
250 (ix) FEATURE:
251 (A) NAME/KEY: Modified-site
252 (B) LOCATION: 21
253 (D) OTHER INFORMATION: /note= "Xaa at position 21 is Asp,

VERIFICATION SUMMARY
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Input Set : N:\Crf3\RULE60\10078113.raw
Output Set: N:\CRF3\04232002\J078113.raw

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L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:52 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=1
L:62 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=2
L:72 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=3
L:83 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=4
L:94 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=5
L:104 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=6
L:114 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=7
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L:170 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=11
L:180 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=12
L:784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:788 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:794 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:1269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:1271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
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L:1652 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:1654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:1656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
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L:1660 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
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L:1664 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
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L:1935 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:1937 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:2504 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:2506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:2508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:2510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:2512 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:2514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:2516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19

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Input Set : N:\Crf3\RULE60\10078113.raw
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L:2992 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
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L:2996 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:3366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
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